

????????? ?????????????? UMNI ?????? ESP Launchpad (????- ?????????)

Эта инструкция описывает процесс прошивки устройства через онлайн-инструменты на примере Esp Launchpad.

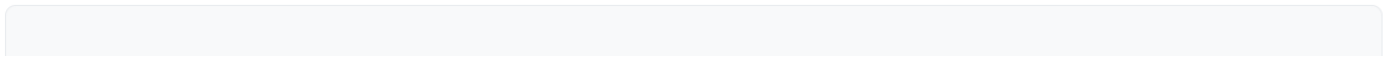


ESP Launchpad helps you to flash the selected firmware image onto your device.

Ensure you have connected your device to the serial USB port. Click on the 'Connect' button in the top menu option, to connect to your attached device.

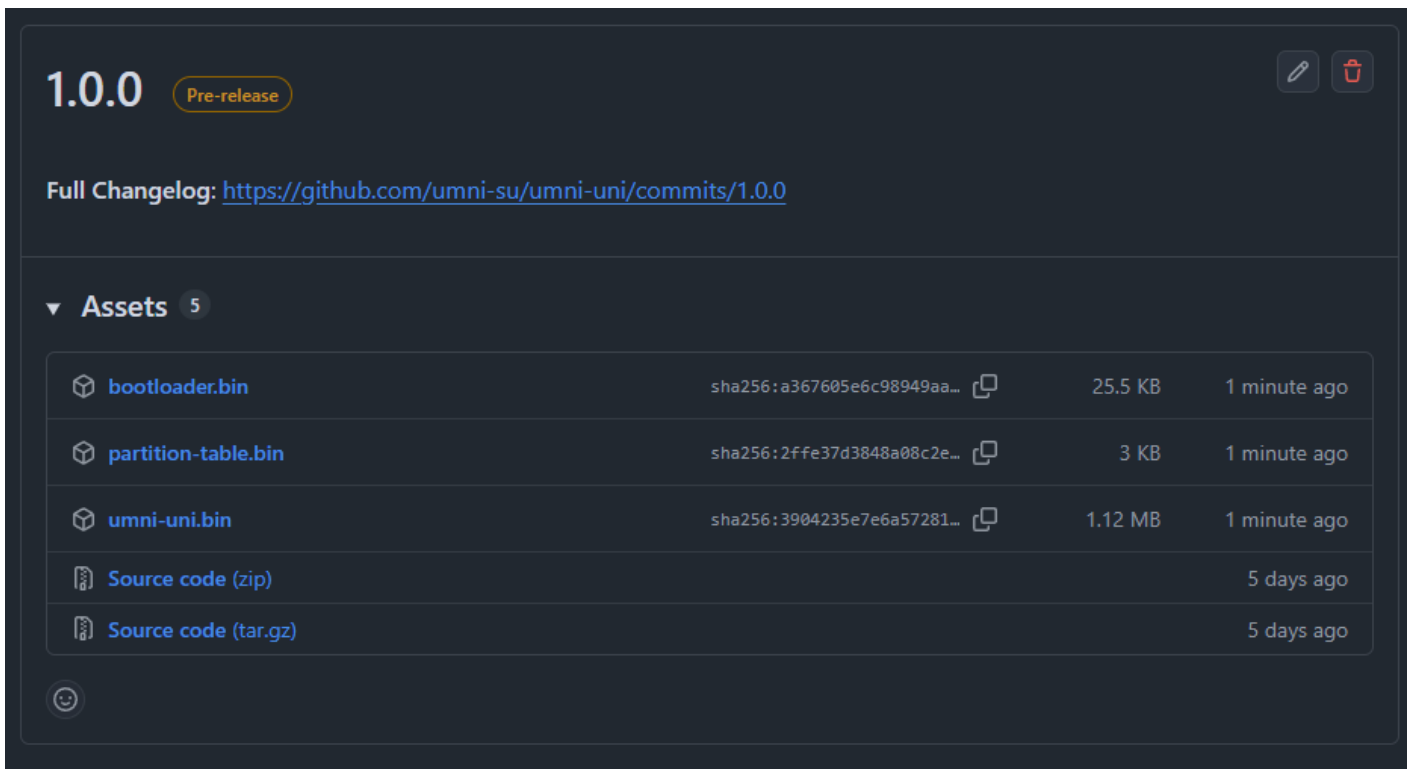
Note : Once you flash your device, any earlier firmware would be overwritten.

Choose from some of ESP's pre-built, out-of-the-box examples to flash and play



Перед прошивкой подайте внешнее питание на контроллер и подключите USB, либо снимите перемычку КОНФ. Либо используйте хороший USB кабель и порт компьютера.

Скачать последний релиз прошивки (файл umni-uni.bin) со страницы <https://github.com/umni-su/umni-uni/releases> .



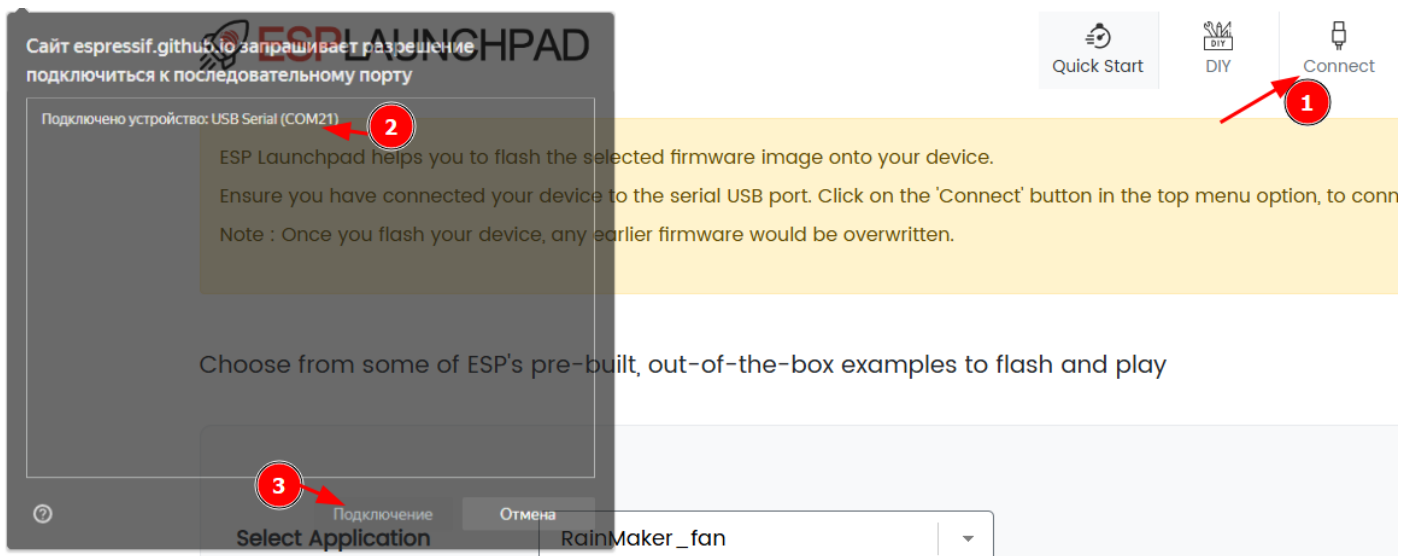
Скачать и установить драйвера для чипа CH340 по ссылкам ниже или из файлов инструкции.

OS	Source URL
Linux	https://www.wch-ic.com/downloads/CH341SER_LINUX_ZIP.html
macOS	https://www.wch-ic.com/downloads/CH341SER_MAC_ZIP.html
Windows	https://www.wch-ic.com/downloads/CH341SER_ZIP.htm

Подключить контроллер UMNI к компьютеру по USB.

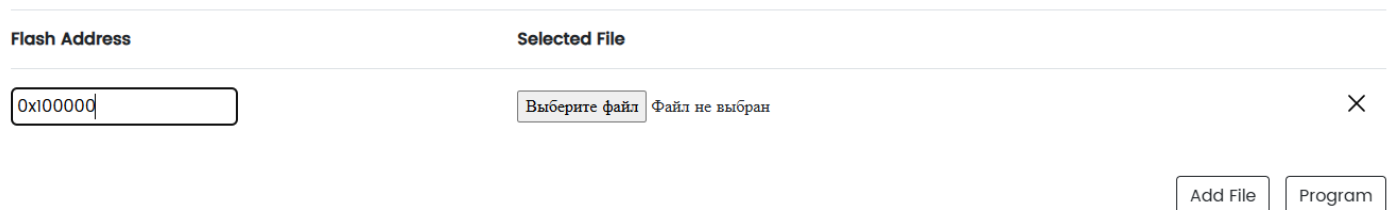
Перейти на сайт <https://espressif.github.io/esp-launchpad/>

Нажать "Connect"

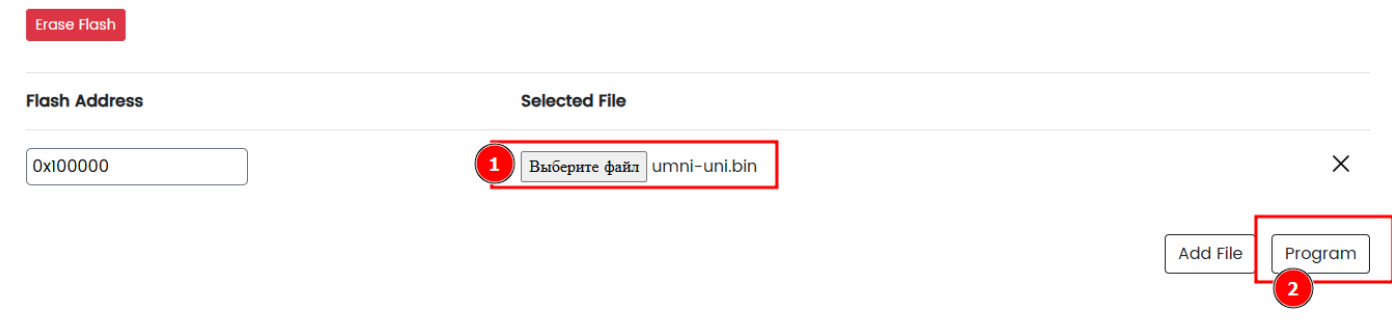


Во всплывающем окне выбрать COM порт, к которому подключен контроллер.

Перейти на вкладку DIY и важно - указать **Flash Address 0x100000**



Выбрать файл ,bin, нажать Program



Если видите в терминале такой вывод, то все прошло успешно!

```
esptool.js
Serial port WebSerial VendorID 0x1a86 ProductID 0x7523
Connecting...
Detecting chip type... ESP32
Chip is ESP32-D0WD-V3 (revision 3)
Features: Wi-Fi, BT, Dual Core, 240MHz, VRef calibration in efuse, Coding Scheme None
Crystal is 40MHz
```

MAC: 44:1d:64:83:89:b4
Uploading stub...
Running stub...
Stub running...
Changing baudrate to 921600
Changed
Manufacturer: 46
Device: 4016
Detected flash size: 4MB
Compressed 1175312 bytes to 751024...
Writing at 0x100000... (2%)
Writing at 0x10d071... (4%)
Writing at 0x11a7e2... (6%)
Writing at 0x1243df... (8%)
Writing at 0x12be9d... (10%)
Writing at 0x134589... (13%)
Writing at 0x139e45... (15%)
Writing at 0x13fb0d... (17%)
Writing at 0x145a07... (19%)
Writing at 0x14b7b2... (21%)
Writing at 0x1515cd... (23%)
Writing at 0x15725d... (26%)
Writing at 0x15cc78... (28%)
Writing at 0x163248... (30%)
Writing at 0x169097... (32%)
Writing at 0x16eb74... (34%)
Writing at 0x174945... (36%)
Writing at 0x17a58c... (39%)
Writing at 0x1802bd... (41%)
Writing at 0x1862a2... (43%)
Writing at 0x18b8cc... (45%)
Writing at 0x1912f8... (47%)
Writing at 0x196973... (50%)
Writing at 0x19bf45... (52%)
Writing at 0x1a1ab5... (54%)
Writing at 0x1a71a1... (56%)
Writing at 0x1ac753... (58%)
Writing at 0x1b1e4c... (60%)
Writing at 0x1b7b87... (63%)
Writing at 0x1bd47c... (65%)

```
Writing at 0x1c2cd7... (67%)
Writing at 0x1c85a9... (69%)
Writing at 0x1ce451... (71%)
Writing at 0x1d3ebf... (73%)
Writing at 0x1d98d2... (76%)
Writing at 0x1df49f... (78%)
Writing at 0x1e5681... (80%)
Writing at 0x1ea75b... (82%)
Writing at 0x1efa65... (84%)
Writing at 0x1f53dc... (86%)
Writing at 0x1fb183... (89%)
Writing at 0x2017f2... (91%)
Writing at 0x2091b8... (93%)
Writing at 0x20ea65... (95%)
Writing at 0x214e5c... (97%)
Writing at 0x21a245... (100%)
Wrote 1175312 bytes (751024 compressed) at 0x100000 in 11.372 seconds.
Leaving...
```

Нажмите Reset

Connected to device: ESP32-D0WD-V3 (revision 3)

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 Reset Device

```
esptool.js
Serial port WebSerial VendorID 0x1a86 ProductID 0x7523
Connecting...
Detecting chip type... ESP32
Chip is ESP32-D0WD-V3 (revision 3)
Features: Wi-Fi, BT, Dual Core, 240MHz, VRef calibration in efuse, Coding Scheme None
Crystal is 40MHz
MAC: 44:1d:64:83:89:b4
Uploading stub...
Running stub...
Stub running...
Changing baudrate to 921600
Changed
Manufacturer: 46
Device: 4016
Detected flash size: 4MB
Compressed 1175312 bytes to 751024...
Writing at 0x100000... (2%)
Writing at 0x10d071... (4%)
Writing at 0x11a7e2... (6%)
Writing at 0x1243df... (8%)
Writing at 0x12be9d... (10%)
Writing at 0x134589... (13%)
Type a command, then press Enter to send
```

Увидите логи приложения - можно отключаться. ПО обновлено.

```
E (3441) gpio: gpio_install_isr_service(533): GPIO isr service already installed
I (3451) onewire: Initializing 1-Wire bus on GPIO 17
I (3471) um_store: Created new store '3A062454A9BD1F28'
I (3471) onewire: Found sensor: 3A062454A9BD1F28 (type: DS18B20)
I (3471) onewire: Initial scan found 1 sensors
I (3491) onewire: Found sensor: 3A062454A9BD1F28 (type: DS18B20)
I (3491) main: Found 1 sensors
I (3491) um_owewire_config: Loaded config for 3A062454A9BD1F28: 'Sensor 3A062454A9BD1F28' (active: yes)
I (3501) um_owewire_config: Loaded 1 sensor configurations
I (3501) onewire: Sensor 3A062454A9BD1F28 active: true
I (3511) onewire: Sensor 3A062454A9BD1F28 calibration: +0.00°C
I (3511) um_owewire_config: Config applied to 3A062454A9BD1F28: active=on->on, calib=0.00->0.00
I (3531) um_owewire_config: Saved 1 sensor configurations to /spiffs/owewire.json
I (3531) main: =====
I (3531) main: Application startup complete!
I (3541) SENSORS: Start reading sensors
I (3541) um_events: Successfully subscribed to event -1
E (3541) gpio: gpio_install_isr_service(533): GPIO isr service already installed
I (4311) um_ntc: Channel 0 temperature: 26.91°C
I (4311) um_ntc: Channel 1 temperature: 26.99°C
I (4551) esp-idf-ot: Initialize opentherm with in: 26 out: 25
I (5051) opentherm: OpenTherm control task started
E (5051) gpio: gpio_install_isr_service(533): GPIO isr service already installed
```

Revision #2

Created 2026-06-09 17:21:31 UTC by Михаил Сазанов

Updated 2026-06-09 17:41:34 UTC by Михаил Сазанов